



Interim Mayor Todd Gloria
www.SDClimateMAP.org



CITY OF SAN DIEGO CLIMATE ACTION PLAN *WORKING DRAFT* December 2013



Overview of San Diego **WORKING DRAFT** Climate Action Plan

Dec.12, 2013

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Climate Impacts in San Diego

- UCSD Professor Keeling in July at NR&C:
 - More Intense and humid heat waves
 - More intense storms and drought
 - Increased water and energy demand
 - Increased fire frequency, intensity & area covered
 - Sea-level rise and coastal effects
 - **Small window of opportunity to slow down climate change**

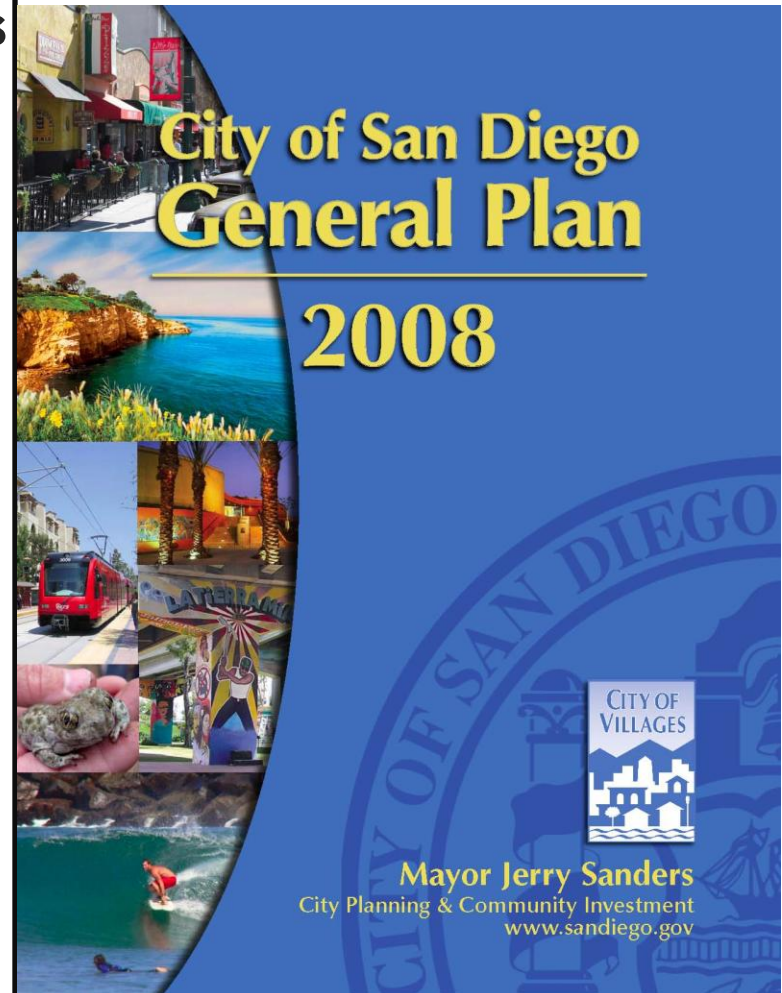
Why are we doing this?

➤ Climate Plan Supports & Mitigates General Plan

- Conservation Element -A.2 – Reduce the City's Carbon Footprint
- Conservation Element – A.13 – Regularly monitor, update, and implement the City's Climate Action Plan to ensure minimum compliance with all applicable federal, state and local laws.

➤ Climate Action Plan will help implement:

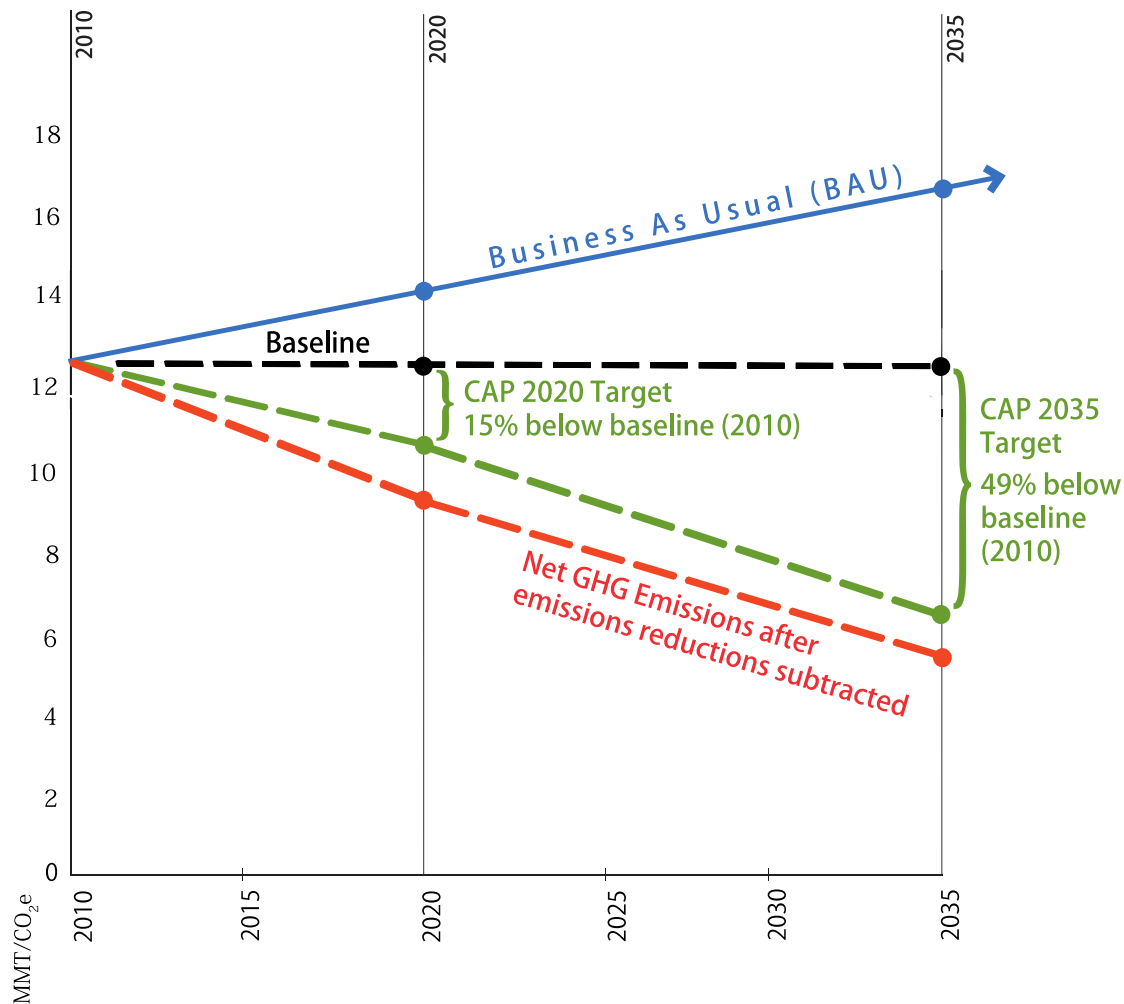
- City of Villages
- General Plan's Transit Oriented Development Goals



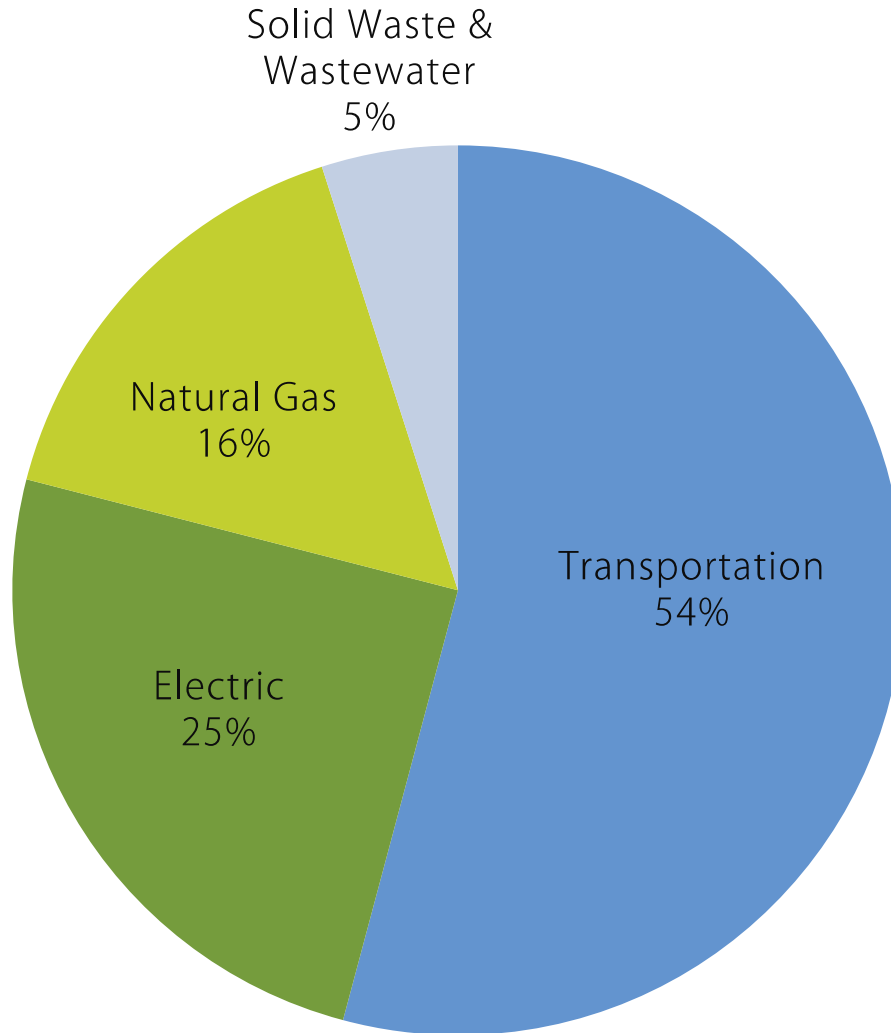
San Diego's Draft Climate Action Plan

- Measures to meet GHG reduction targets of 2020 (AB 32) and 2035 (ES-3-05), consistent with planning horizon of General Plan
- Requires local/regional actions as well as continued implementation of federal and state mandates.
- These actions and associated co-benefits will contribute to the City's current and future prosperity, resiliency and sustainability.
 - Global competitiveness
 - Support's City of Villages concept
 - Furthering San Diego's leadership in clean tech industries
 - Active transportation systems (biking, walking, transit)

Baseline, BAU, and Targets



Updated Community Baseline 2010 Inventory



A Successful Climate Action Plan for San Diego

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5 BOLD Strategies for GHG Emissions Reduction



- 1. ENERGY & WATER EFFICIENT BUILDINGS**
- 2. CLEAN & RENEWABLE ENERGY**
- 3. BIKING, WALKING & TRANSIT**
- 4. ZERO WASTE MANAGEMENT**
- 5. CLIMATE RESILIENCY**

Implementation Plan

Measure = Corresponds to the FIVE Bold Strategies. Description of greenhouse gas emission reduction action

GHG Reductions = GHG reduction potential of each measure in carbon dioxide equivalents

Target Indicators = Percentage of greenhouse gas emissions to be reduced by a defined time frame

Lead Department = Responsible City party for ensuring implementation

General Plan Policies = Referenced 2008 General Plan policy to ensure consistency

Implementation Mechanisms = Regulatory and/or policy mechanisms to implement the GHG reduction measure and related target

Implementation Phases = Implementation time frame broken into three distinct phases of 2015 - 2017; 2018-2020; and 2021-2035

Strategy 1: Energy & Water Efficient Buildings

STRATEGY 1: ENERGY & WATER EFFICIENT BUILDINGS Measure 1.1: Reduce Commercial Energy Consumption

	2020	2035						
GHG REDUCTIONS	133,928 MT/CO ₂ e	271,878 MT/CO ₂ e						
TARGET INDICATORS	<ul style="list-style-type: none">• Reduce commercial building energy consumption by 10% by 2020.	<ul style="list-style-type: none">• Reduce commercial building energy consumption by 60% by 2035.						
LEAD DEPARTMENT:	Environmental Services Department							
GENERAL PLAN POLICIES:	CE-I.7, CE-I.5b, CE-I.13							
IMPLEMENTING MECHANISMS:		IMPLEMENTATION PHASES:						
1.1.1 Building upon the existing state requirements to disclose energy use stating in 2014, develop a Commercial Water and Energy Conservation Ordinance by 2020 to be phased-in dependent on building age to require installation of energy and water conservation features before completing a sale or lease transaction, or at time of major renovation or remodeling.		<table><tr><th>2015-2017</th><th>2018-2020</th><th>2021-2035</th></tr><tr><td>✓</td><td></td><td></td></tr></table>	2015-2017	2018-2020	2021-2035	✓		
2015-2017	2018-2020	2021-2035						
✓								
1.1.2 Implement and expand current Property-Assisted Clean Energy (PACE) financing program by 2015.		<table><tr><th>2015-2017</th><th>2018-2020</th><th>2021-2035</th></tr><tr><td></td><td>✓</td><td></td></tr></table>	2015-2017	2018-2020	2021-2035		✓	
2015-2017	2018-2020	2021-2035						
	✓							

Strategy 2: Clean & Renewable Energy

STRATEGY 2: CLEAN & RENEWABLE ENERGY

Measure 2.1: Achieve 100 Percent Renewable Citywide

	2020	2035
GHG REDUCTIONS	0 MT/CO₂e	2,819,901 MT/CO₂e
TARGET INDICATORS		<ul style="list-style-type: none"> Additional renewable energy supplies to achieve 100% renewable electricity by 2035 city-wide.

LEAD DEPARTMENT: Environmental Services Department

GENERAL PLAN POLICIES: CE-A.2, CE-A.5, CE-A.6, CE-I.5, CE-I.10, CE-I.11 UD-A.4

IMPLEMENTING MECHANISMS:

IMPLEMENTATION PHASES:

2.1.1

Complete a city-wide Community Choice Aggregation (CCA) feasibility study by 2015.

2015-2017	2018-2020	2021-2035
✓		

2.1.2

Advocate for policies to promote additional procurement of renewable energy by our local utility, such as increased renewable energy requirements, local procurement mechanisms, and clean distributed generation feed-in tariffs.

2015-2017	2018-2020	2021-2035
	✓	

2.1.3

Advocate and apply for Direct Access opportunities for energy procurement for the City of San Diego.

2015-2017	2018-2020	2021-2035
	✓	

Strategy 3: Biking, Walking & Transit

STRATEGY 3: BIKING, WALKING & TRANSIT Measure 3.2: Increase Commuter Biking

	2020	2035						
GHG REDUCTIONS	31,393 MT/CO ₂ e	74,563 MT/CO ₂ e						
TARGET INDICATORS	<ul style="list-style-type: none">• Increase commuter biking to 6% in 2020 in high-quality transit areas.	<ul style="list-style-type: none">• Increase commuter biking to 18.5% in 2035 in high-quality transit areas.						
LEAD DEPARTMENT:	Transportation and Public Works							
GENERAL PLAN POLICIES:	CE-A.2, ME-E.6, ME-F.5, ME-F.6							
IMPLEMENTING MECHANISMS:		IMPLEMENTATION PHASES:						
3.2.1 Complete 5-Year Strategic Implementation Plan of the Bike Master Plan by 2015, including establishing implementation performance measures.		<table><tr><th>2015-2017</th><th>2018-2020</th><th>2021-2035</th></tr><tr><td>✓</td><td></td><td></td></tr></table>	2015-2017	2018-2020	2021-2035	✓		
2015-2017	2018-2020	2021-2035						
✓								
3.2.2 Implement bicycle sharing program with DecoBikes by 2015.		<table><tr><th>2015-2017</th><th>2018-2020</th><th>2021-2035</th></tr><tr><td>✓</td><td></td><td></td></tr></table>	2015-2017	2018-2020	2021-2035	✓		
2015-2017	2018-2020	2021-2035						
✓								

Strategy 3: Biking, Walking & Transit

3.2.3

Establish new priority ranking for prioritizing infrastructure improvements in high quality transit areas that will be integrated into Capital Improvement Priority Matrix, Community Development Block Grant opportunities and Public Facilities Financing Plans by 2015.

2015-2017	2018-2020	2021-2035
✓		

3.2.4

Continue implementing the Bicycle Improvements with Street Re-surfacing Plan including lane diets, green bike lanes, sharrows, and buffer bike lanes.

2015-2017	2018-2020	2021-2035
✓	✓	✓

Keys to success

- Will take full support by the City, community and elected officials to ensure success
- Regular monitoring and evaluation is critical
- We must adapt and modify our approaches as needed

We are already taking action

➤ Achievements in San Diego Thus Far

- Renewable – 22 MW (more coming)
- Upgraded 90% LED Traffic lights & 36,000 new efficient street lights (saved City millions)
- 10 Balboa Park building retrofits (\$1M saved)
- Capturing gas from landfills to power City facilities
- Aggressive bike restriping program/bike share
- Electric car-sharing program (Car2Go)

Next Steps...

- Finalize Working Draft in early 2014
- Environmental review process will be Feb 2014 to Fall 2014 (estimated timeline) – will include more public outreach
- Estimated Final Council Adoption Early 2015